

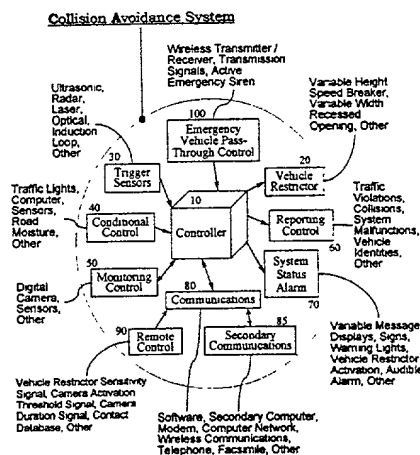


US 6,223,125 B1

**(12) United States Patent
Hall****(10) Patent No.: US 6,223,125 B1**
(45) Date of Patent: Apr. 24, 2001**(54) COLLISION AVOIDANCE SYSTEM**2333114 * 7/1999 (GB).
94/19544 9/1994 (WO).**(75) Inventor: Brett O. Hall, 4206 Lazy Creek Dr.,
Marietta, GA (US) 30066***Primary Examiner—Michael J. Zanelli*
*Assistant Examiner—Eric M Gibson***(73) Assignee: Brett O. Hall, Marietta, GA (US)****(57) ABSTRACT****(*) Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.**(21) Appl. No.: 09/478,485****(22) Filed: Jan. 6, 2000****Related U.S. Application Data****(60)** Provisional application No. 60/118,920, filed on Feb. 5, 1999.**(51) Int. Cl.⁷ G08G 1/00****(52) U.S. Cl. 701/301; 701/117****(58) Field of Search 701/301, 117,
701/118, 119; 340/928, 933, 936; 404/15****(56) References Cited****U.S. PATENT DOCUMENTS**

1,497,073	*	6/1924	Doyle	49/360
1,531,987	*	3/1925	Smith	246/300
2,729,805	*	1/1956	Struke	340/901
3,389,677	*	6/1968	Dunne	116/205
4,012,156		3/1977	Turner	404/15
4,023,017	*	5/1977	Ceseri	701/118
4,775,865	*	10/1988	Smith et al.	340/906
5,041,828		8/1991	Loeven	340/937
5,066,950		11/1991	Schweitzer	340/937
5,267,808	*	12/1993	Welford	404/11
5,319,366	*	6/1994	Mendeleev	340/907
5,381,155	*	1/1995	Gerber	342/104
5,486,065		1/1996	James	404/15
5,509,753		4/1996	Thompson	404/6

(List continued on next page.)

FOREIGN PATENT DOCUMENTS2647132 11/1990 (FR).
2079356 1/1982 (GB).**21 Claims, 12 Drawing Sheets**

U.S. PATENT DOCUMENTS

5,617,086	*	4/1997	Klashinsky et al.	340/907	5,948,038	*	9/1999	Daly et al.	701/117
5,673,039	*	9/1997	Pietzsch et al.	340/905	5,952,941	*	9/1999	Mardirossian	340/936
5,742,699		4/1998	Adkins	382/107	6,026,347	*	2/2000	Schuster	701/301
5,831,551		11/1998	Geduld	340/905					

* cited by examiner

T09290-58726860